

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Named Inventor :	Chang et al.	
Appln. No.:	10/804,815	
Filed :	March 18, 2004	Group Art Unit: 2171
For :	RENDERING TABLES WITH NATURAL LANGUAGE COMMANDS	
Docket No.:	M61.12-0606	

**DECLARATION OF PRIOR INVENTION IN
THE UNITED STATES (37 C.F.R. §1.131)**

**VIA ELECTRONIC FILING
SYSTEM (EFS)**

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

INVENTORSHIP IDENTIFICATION

As a person signing below, I hereby declare that:

1. I am a co-inventor of the subject matter claimed in the above-identified patent application.
2. My residence, post office address and citizenship are as stated below next to my name.
3. I am an employee or former employee of Microsoft Corporation.
4. Exhibits A-G are redacted copies of "checkin" mails maintained by Microsoft Corporation, which shows that I jointly conceived of and reduced to practice the subject matter disclosed in the above-identified patent application prior to August 20, 2003. The dates have been redacted on advice of counsel.
5. Checkin mails are logs that describe changes made to code files that are used to execute computer applications. The checkin mails provide general comments regarding the functionality of the code files and a listing of the code files that have been added, edited or deleted since the

previous checkin mail. The underlying code in the code files has been redacted on advice of counsel.

CONCEPTION AND REDUCTION TO PRACTICE

6. I jointly conceived and reduced in the United States the subject matter claimed in the above-identified patent application prior to August 20, 2003, which is the priority date of the cited reference Elder (U.S. Pub. No. 2005/0043940 A1).

7. One implementation of the claimed subject matter relates to adding functionality to the Microsoft Excel spreadsheet program by rendering "PivotTables" based on natural language input. A PivotTable is an interactive table that is further described in the present application, for example on page 17 from line 4 to 24. Exhibits A-G are checkin mails that describe functionality for the Microsoft Excel spreadsheet program.

8. Exhibit A is a checkin mail dated prior to August 20, 2003. The checkin mail lists code files that allow the Microsoft Excel spreadsheet program to read dimensions from an OLAP cube, accept natural language input and preview tables, among other features.

9. Exhibit B is a checkin mail dated prior to August 20, 2003. The checkin mail lists code files that allow the Microsoft Excel spreadsheet program to render a table for the command "show X by Y".

10. Exhibit C is a checkin mail dated prior to August 20, 2003. The checkin mail lists code files that allow the Microsoft Excel spreadsheet program to show multiple interpretations for a natural language input, show tables at different levels, for example by interpreting "show gross profit for February" and not just "show gross profit by Time" and coordinate restrictions, for example by rendering a table based on the input "show A by B and by C and by D".

11. Exhibit D is a checkin mail dated prior to August 20, 2003. The checkin mail lists code files that allow the Microsoft Excel spreadsheet program to recognize "display" commands. For example, the program can interpret and render a table based on an example input of "display a table showing gross profits by aircraft".

12. Exhibit E is a checkin mail dated prior to August 20, 2003. The checkin mail lists code files that allow the Microsoft Excel spreadsheet program to perform more precise operations such as "show gross profits for January and for March".

13. Exhibit F is a checkin mail dated prior to August 20, 2003. The checkin mail lists code files that allow the Microsoft Excel spreadsheet program to perform further functionality. For example, if rendering a table for Burbank, California, all cities in California are hidden and all cities outside of California are hidden. Additionally, the code files enable the Microsoft Excel spreadsheet program to update an existing table rather than creating a new table.

14. Exhibit G is a checkin mail dated prior to August 20, 2003. The checkin mail list code files that allow the Microsoft Excel spreadsheet program to highlight particular fields.

DECLARATION

15. I declare that all statements made herein that are of my own knowledge are true and that all statements that are made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. §1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

SIGNATURE

Full Name of Inventor: **Su Chin Chang**
Residence: Woodinville, WA
Post Office Address: 12921 195th Pl NE, Woodinville, WA 98077

Citizenship: Canada

Inventor's Signature

Date

-4-

Full Name of Inventor: **Ravi Shahani**

Citizenship: USA

Residence: Redmond, Washington

Post Office Address: 16515 NE 111th St., Redmond, Washington 98052



Inventor's Signature

1/22/2007

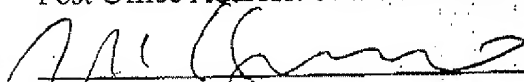
Date

Full Name of Inventor: **Michael Calcagno**

Citizenship: USA

Residence: Kirkland, Washington

Post Office Address: 10620 NE 44th St, Kirkland, WA 98033



Inventor's Signature

1/22/2007

Date

Full Name of Inventor: **Robert Stumberger**

Citizenship: USA

Residence: Seattle, WA

Post Office Address: 2708 Franklin Avenue East, Seattle WA 98102

Inventor's Signature

Date

Full Name of Inventor: **Nicholas Caldwell**

Citizenship: USA

Residence: Lake Forest Park, WA

Post Office Address: 3820 NE 155th Place #502, Lake Forest Park, WA 98155



Inventor's Signature

1-22-2007

Date

Full Name of Inventor: **Allan Folting**

Citizenship: Danish

Residence: Redmond, WA

Post Office Address: 22619 NE 91st Way, Redmond, WA 98053

Inventor's Signature

Date

Full Name of Inventor: **Charles David Ellis**

Citizenship: USA

Residence: Seattle, WA

Post Office Address: 1618 Bellevue Ave, #704, Seattle, WA 98122

Inventor's Signature

Date

The Director is authorized to charge any fee deficiency required by this paper or credit any overpayment to Deposit Account No. 23-1123.

Respectfully submitted,

WESTMAN, CHAMPLIN & KELLY, P.A.

By: 

Todd R. Fronek, Reg. No. 48,516
900 Second Avenue South, Suite 1400
Minneapolis, Minnesota 55402-3319
Phone: (612) 334-3222 Fax: (612) 334-3312

TRF:rdg

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Named
Inventor : Chang et al.

Appln. No.: 10/804,815

Filed : March 18, 2004

For : RENDERING TABLES WITH NATURAL
LANGUAGE COMMANDS

Docket No.: M61.12-0606

Group Art Unit: 2171

**DECLARATION OF PRIOR INVENTION IN
THE UNITED STATES (37 C.F.R. §1.131)**

**VIA ELECTRONIC FILING
SYSTEM (EFS)**

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

INVENTORSHIP IDENTIFICATION

As a person signing below, I hereby declare that:

1. I am a co-inventor of the subject matter claimed in the above-identified patent application.
2. My residence, post office address and citizenship are as stated below next to my name.
3. I am an employee or former employee of Microsoft Corporation.
4. Exhibits A-G are redacted copies of "checkin" mails maintained by Microsoft Corporation, which shows that I jointly conceived of and reduced to practice the subject matter disclosed in the above-identified patent application prior to August 20, 2003. The dates have been redacted on advice of counsel.
5. Checkin mails are logs that describe changes made to code files that are used to execute computer applications. The checkin mails provide general comments regarding the functionality of the code files and a listing of the code files that have been added, edited or deleted since the

previous checkin mail. The underlying code in the code files has been redacted on advice of counsel.

CONCEPTION AND REDUCTION TO PRACTICE

6. I jointly conceived and reduced in the United States the subject matter claimed in the above-identified patent application prior to August 20, 2003, which is the priority date of the cited reference Elder (U.S. Pub. No. 2005/0043940 A1).

7. One implementation of the claimed subject matter relates to adding functionality to the Microsoft Excel spreadsheet program by rendering "PivotTables" based on natural language input. A PivotTable in an interactive table that is further described in the present application, for example on page 17 from line 4 to 24. Exhibits A-G are checkin mails that describe functionality for the Microsoft Excel spreadsheet program.

8. Exhibit A is a checkin mail dated prior to August 20, 2003. The checkin mail lists code files that allow the Microsoft Excel spreadsheet program to read dimensions from an OLAP cube, accept natural language input and preview tables, among other features.

9. Exhibit B is a checkin mail dated prior to August 20, 2003. The checkin mail list code files that allow the Microsoft Excel spreadsheet program to render a table for the command "show X by Y".

10. Exhibit C is a checkin mail dated prior to August 20, 2003. The checkin mail lists code files that allow the Microsoft Excel spreadsheet program to show multiple interpretations for a natural language input, show tables at different levels, for example by interpreting "show gross profit for February" and not just "show gross profit by Time" and coordinate restrictions, for example by rendering a table based on the input "show A by B and by C and by D".

11. Exhibit D is a checkin mail dated prior to August 20, 2003. The checkin mail lists code files that allow the Microsoft Excel spreadsheet program to recognize "display" commands. For example, the program can interpret and render a table based on an example input of "display a table showing gross profits by aircraft".

12. Exhibit E is a checkin mail dated prior to August 20, 2003. The checkin mail lists code files

files that allow the Microsoft Excel spreadsheet program to perform more precise operations such as "show gross profits for January and for March".

13. Exhibit F is a checkin mail dated prior to August 20, 2003. The checkin mail lists code files that allow the Microsoft Excel spreadsheet program to perform further functionality. For example, if rendering a table for Burbank, California, all cities in California are hidden and all cities outside of California are hidden. Additionally, the code files enable the Microsoft Excel spreadsheet program to update an existing table rather than creating a new table.

14. Exhibit G is a checkin mail dated prior to August 20, 2003. The checkin mail list code files that allow the Microsoft Excel spreadsheet program to highlight particular fields.

DECLARATION

15. I declare that all statements made herein that are of my own knowledge are true and that all statements that are made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. §1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

SIGNATURE

Full Name of Inventor: **Su Chin Chang**
Residence: Woodinville, WA
Post Office Address: 12921 195th PINE, Woodinville, WA 98077

Citizenship: USA



Inventor's Signature

Date

1/23/07

Full Name of Inventor: **Ravi Shahani**
Residence: Redmond, Washington

Citizenship: USA

-4-

Full Name of Inventor: **Ravi Shahani**

Citizenship: USA

Residence: Redmond, Washington

Post Office Address: 16515 NE 111th St., Redmond, Washington 98052

Inventor's Signature_____
DateFull Name of Inventor: **Michael Calcagno**

Citizenship: USA

Residence: Kirkland, Washington

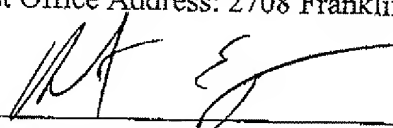
Post Office Address: 10620 NE 44th St, Kirkland, WA 98033

Inventor's Signature_____
DateFull Name of Inventor: **Robert Stumberger**

Citizenship: USA

Residence: Seattle, WA

Post Office Address: 2708 Franklin Avenue East, Seattle WA 98102



Inventor's Signature1/24/07

DateFull Name of Inventor: **Nicholas Caldwell**

Citizenship: USA

Residence: Upper Marlboro, MN

Post Office Address: 201 Castleton Place, Upper Marlboro, MN 20774

Inventor's Signature_____
Date

Post Office Address: 22619 NE 91st Way, Redmond, WA 98053

Inventor's Signature

Date

Full Name of Inventor: **Charles David Ellis**

Citizenship: USA

Residence: Seattle, WA

Post Office Address: 1618 Bellevue Ave, #704, Seattle, WA 98122


Inventor's Signature

Date

The Director is authorized to charge any fee deficiency required by this paper or credit any overpayment to Deposit Account No. 23-1123.

Respectfully submitted,

WESTMAN, CHAMPLIN & KELLY, P.A.

By: 

Todd R. Fronek, Reg. No. 48,516
900 Second Avenue South, Suite 1400
Minneapolis, Minnesota 55402-3319
Phone: (612) 334-3222 Fax: (612) 334-3312

TRF:rdg